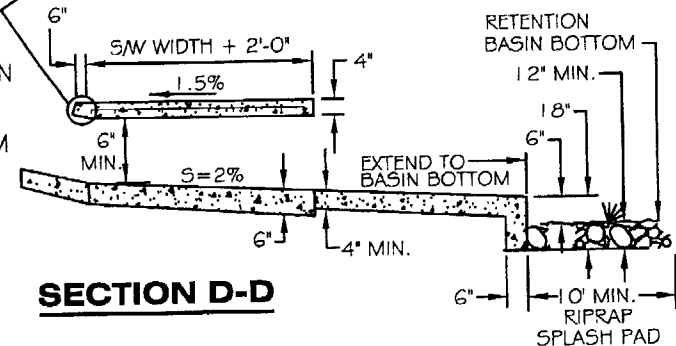
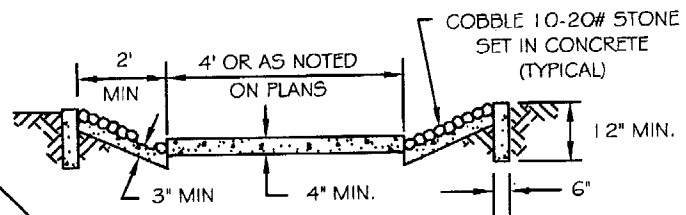
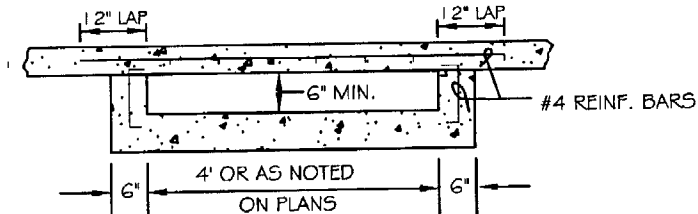


STORM SEWER & DRAINAGE SERIES

C-500 TO C-509





NTS

8x8x6" MAG CLASS B CONCRETE PAD REQUIRED IN DG-LANDSCAPED AREAS. SEVEN #3 BARS 12" C TO C EACH WAY. SLOPE DOWN FROM GRATE TO DG SURFACE 1 1/2".

1. MODIFIED FLAT-BOTTOM MANHOLE CONE. MORTAR TO C.I. RING

2. MIN. 30" DIA. BOLTED C.I. RING AND GRATE.

3. MIN. 30" DIA. BOLTED C.I. RING AND COVER WITH THE RAISED LETTERS 'STORMWATER ONLY'.

4. GRADED PARKWAY, OR A.C. PAVING.

5. COMPACTED ABC IN PAVED AREAS.

6. DEBRIS SHIELD: ROLLED 16 GA. x 24" LENGTH W/ VENTED ANTI-SIPHON AND INTERNAL 0.265" MAX. SWO FLATTENED EXPANDED STEEL SCREEN x 12" LENGTH, FUSION-BONDED EPOXY.

7. PRECAST CONCRETE LINER, 4000 PSI 48" ID, 54" OD.

8. MIN. 6" DIA. DRILLED SHAFT.

9. SUPPORT BRACKET (TYP), FORMED 12 GA. STEEL FUSION BONDED EPOXY COATED

10. 6" DIA. SCHEDULE 40 PVC OVERFLOW PIPE.

11. 6" DIA. CORRUGATED HDPE PER MAG SECT. 738 INJECTION PIPE. NO PERFORATIONS BELOW SETTLING CHAMBER.

12. 4" THICK PERVIOUS CONCRETE SLAB CONFORMING TO MAG SECT. 725 MODIFIED: 6 SACK/CY PORTLAND CEMENT; MAX. WATER/CEMENT RATIO 0.3; COARSE AGGREGATE ONLY ASTM C-33 SIZE #8, WASHED; NO FINES; CONSOLIDATE BY STRIKING, NOT VIBRATION.

13. 3/8" TO 1-1/2" WASHED ROCK

14. DRAINAGE SCREEN: SCH. 40 PVC 0.12" SLOTTED WELL SCREEN 32 SLOTS PER ROW/FT.

15. MIN. 4" DRILLED SHAFT.

16. FABRIC SEAL, UV RESISTANT GEOTEXTILE. COVER GRATE UNTIL PAVING AND/OR LANDSCAPING IS COMPLETE.

17. 4" DIA. SCH. 40 PVC CONNECTOR PIPE W/ VENTED ANTI-SIPHON INTAKE & FLOW REGULATOR.

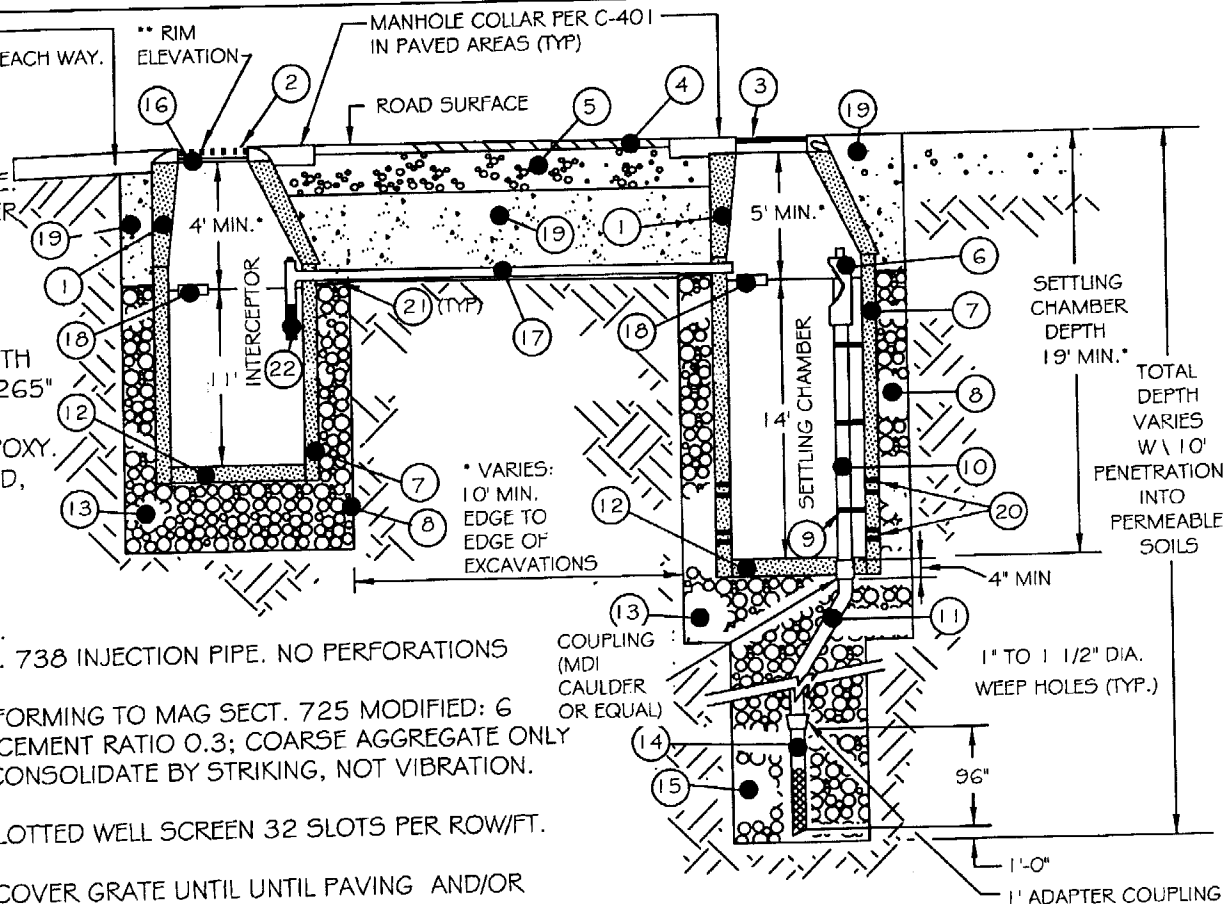
18. MIN. 4 QUART CAPACITY ABSORBENT.

19. 1 SACK ABC SLURRY EXCEPT IN LANDSCAPED INSTALLATIONS WITH NO PIPE CONNECTIONS.

20. 8 PERFORATIONS PER LINEAR FOOT FOR BOTTOM 3 FEET OF INJECTION CHAMBER.

21. 6 MIL PLASTIC LINER WATER STOP

22. INTAKE SCREEN, SCH 40 PVC 0.12" MODIFIED SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. 48" OVERALL LENGTH WITH TRI-C END CAP



* NOTE - OVERFLOW DEPTHS AND INVERT OF CONNECTOR PIPE MUST BE BELOW THE INVERTS OF ALL UPSTREAM STORM DRAIN PIPE.

** NOTE - RIM ELEVATION SHALL BE FLUSH TO ROAD SURFACE OR TURF. RIM ELEVATION SHALL BE 1 1/2" ABOVE DECOMPOSED GRANITE (DG) LANDSCAPED AREAS.

BASED UPON 'MAXWELL PLUS' BY TORRENT RESOURCES

DETAIL NO.

C-501

NTS



CITY OF
CHANDLER
STANDARD
DETAIL

DRY WELL SYSTEM DETAIL AND SPECIFICATIONS

APPROVED:

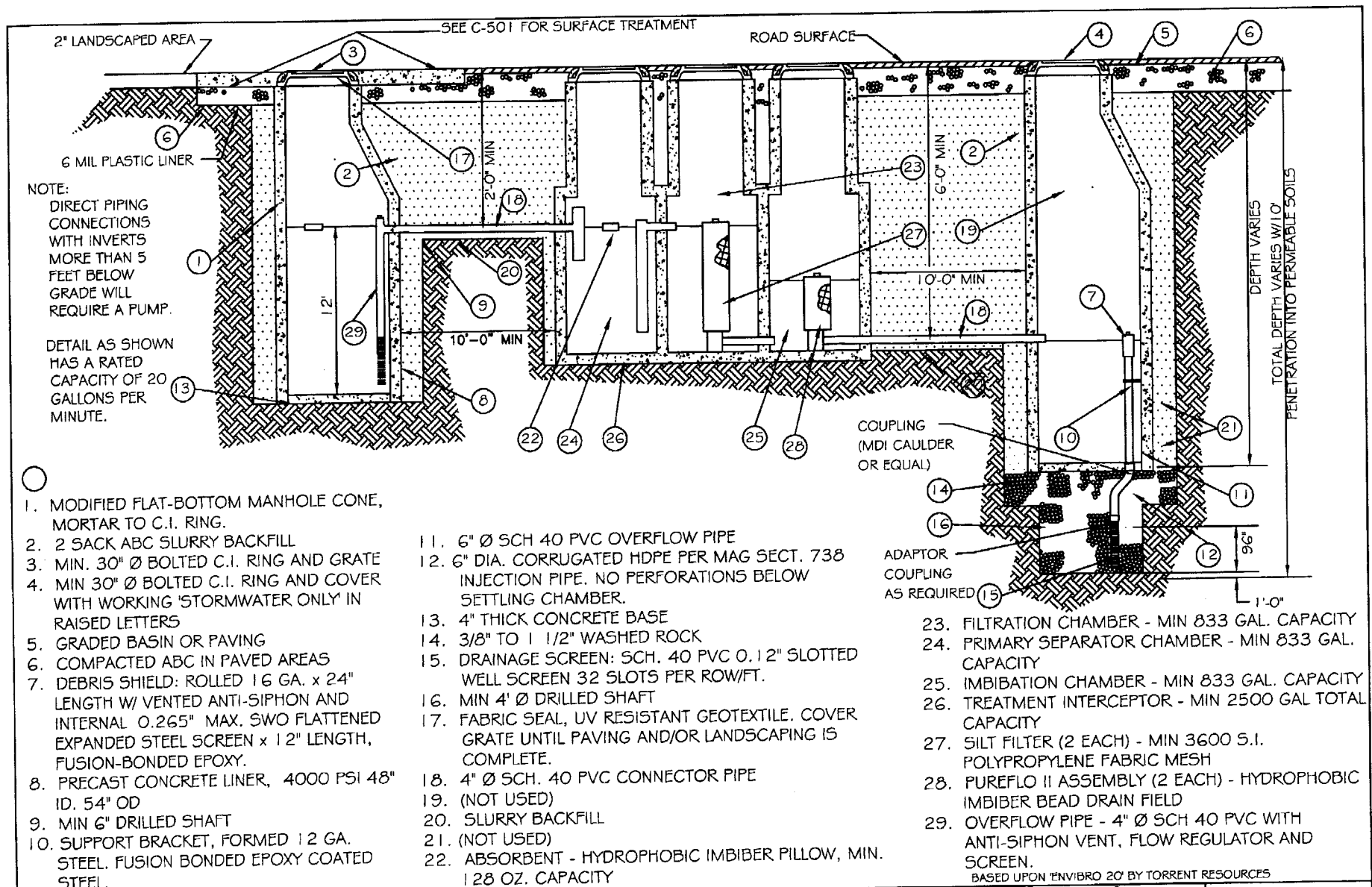
DATE:

CITY ENGINEER

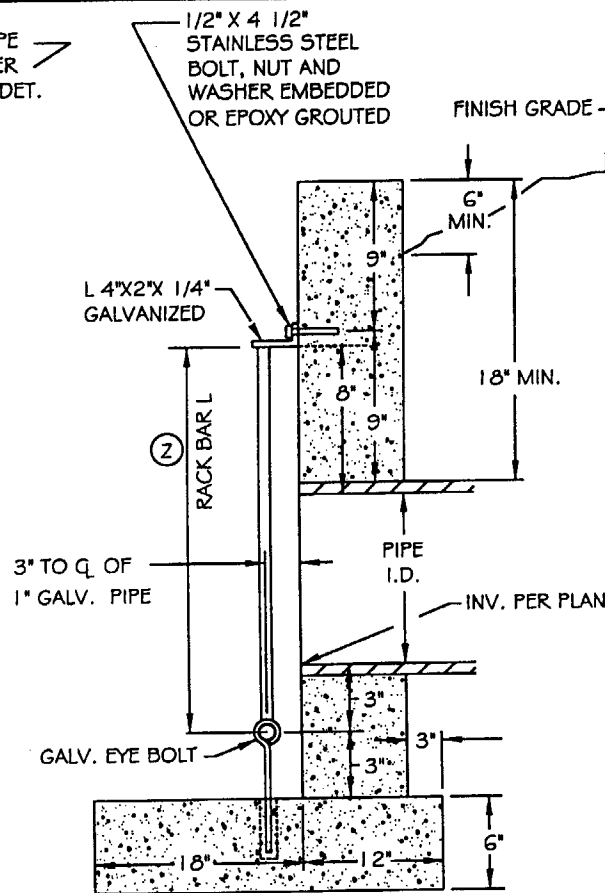
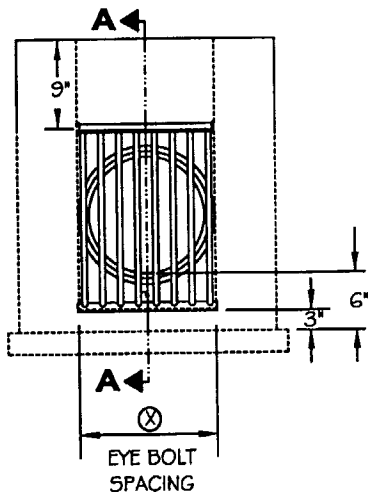
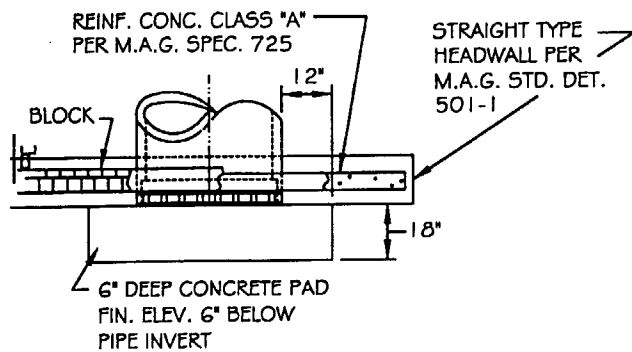
DETAIL NO.

C-501

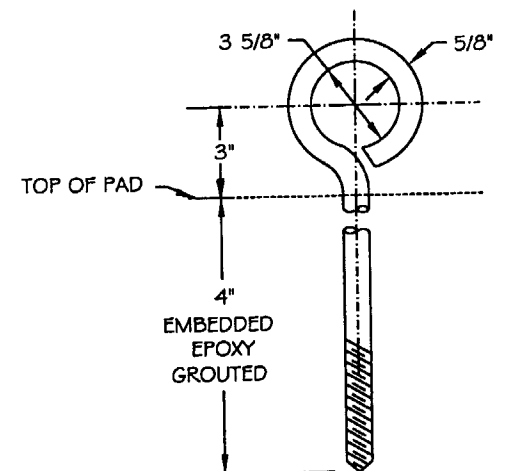
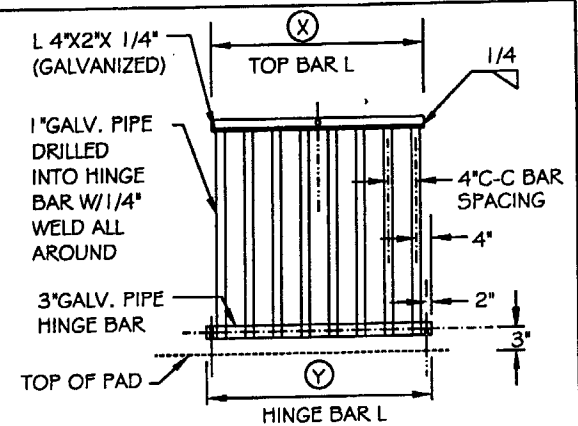
NTS



DETAIL NO. C-502 NTS	 CITY OF CHANDLER STANDARD DETAIL	PRETREATMENT DRYWELL SYSTEM	APPROVED: <i>[Signature]</i> CITY ENGINEER DATE: 01/08/09	DETAIL NO. C-502 NTS
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SECTION A-A



EYE BOLT

TYPICAL DIMENSIONS					
TYPE	PIPE DIA.	NO. OF BARS (I.D./4" + 1")	DIMENSIONS		
			X	Y	Z
A	15"	5	21"	25"	26"
	18"	6	25"	29"	29"

* ROUND UP TO NEXT FULL NUMBER

OTHER BAR SIZES	
DIMENSIONS	
X =	(# BARS X 4") + 1"
Y =	X + 4"
Z =	I.D. + 3" + 8" (UP TO 4' 0")

NOTES:

1. THIS DETAIL IS APPLICABLE AT ALL OPEN ENDS OF PIPE 12" OR MORE IN DIAMETER.
2. COAT ALL WELD AREAS WITH ZINC RICH PAINT.
3. DESIGN ENGINEER TO PROVIDE DETAILS FOR PIPE I.D.'S GREATER THAN 4' IN DIAMETER.

DETAIL NO.
C-503
NTS



CITY OF
CHANDLER
STANDARD
DETAIL

TRASH RACK/ACCESS BARRIER

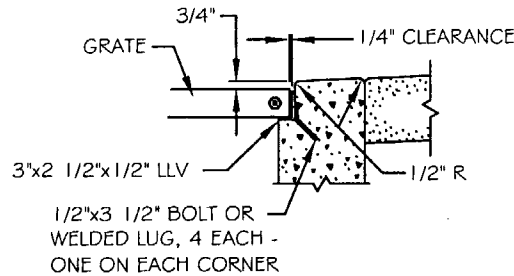
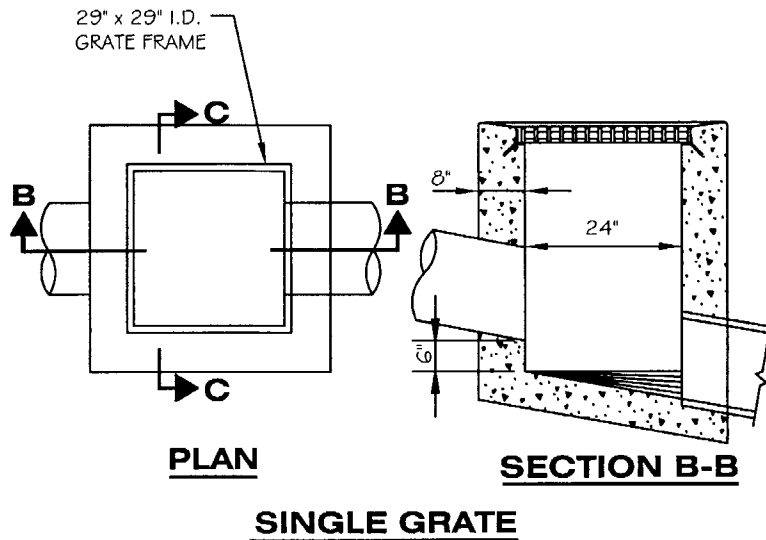
APPROVED:

Ray D. Patton
CITY ENGINEER

DATE: 11-19-99

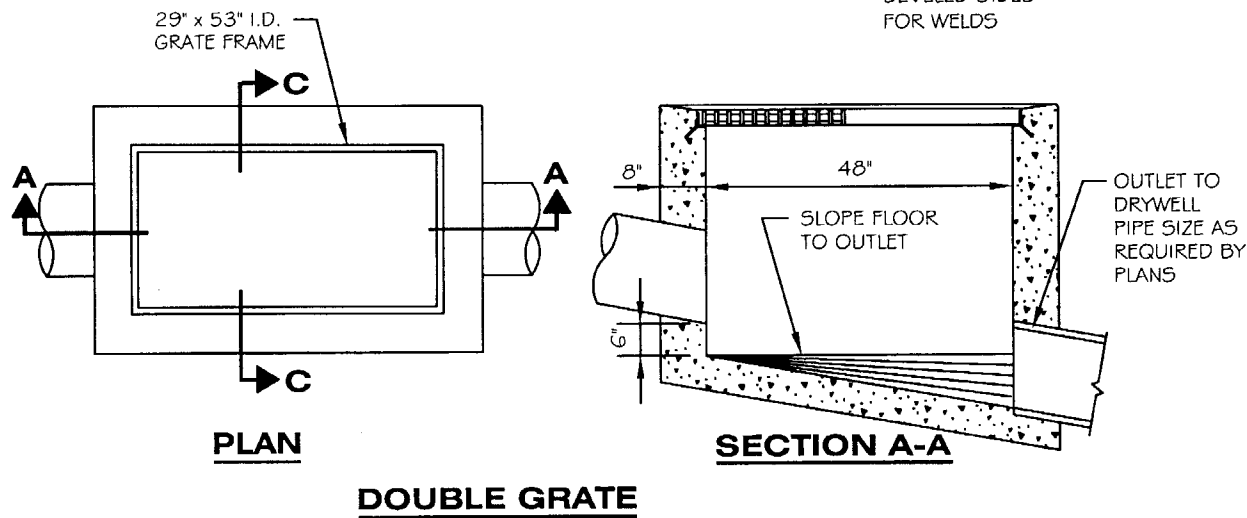
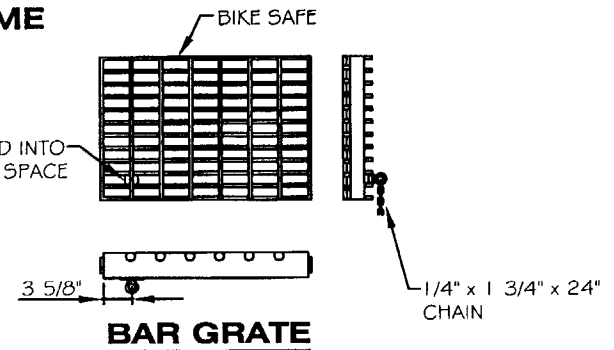
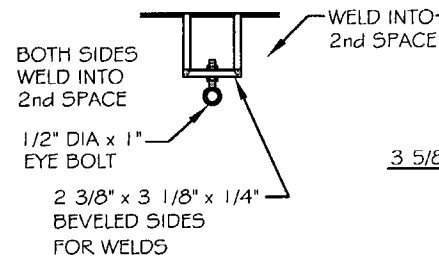
DETAIL NO.

C-503
NTS



DETAIL OF ANGLE FRAME GRATE SUPPORT

ALL CONCRETE SHALL BE CLASS 'A' PER MAG SECT. 725. EXPOSED EDGES SHALL BE FINISHED WITH A 1/2" RADIUS. REINFORCE WITH #4 AT 8" EACH WAY, CENTERED.



DETAIL NO.
C-504
NTS

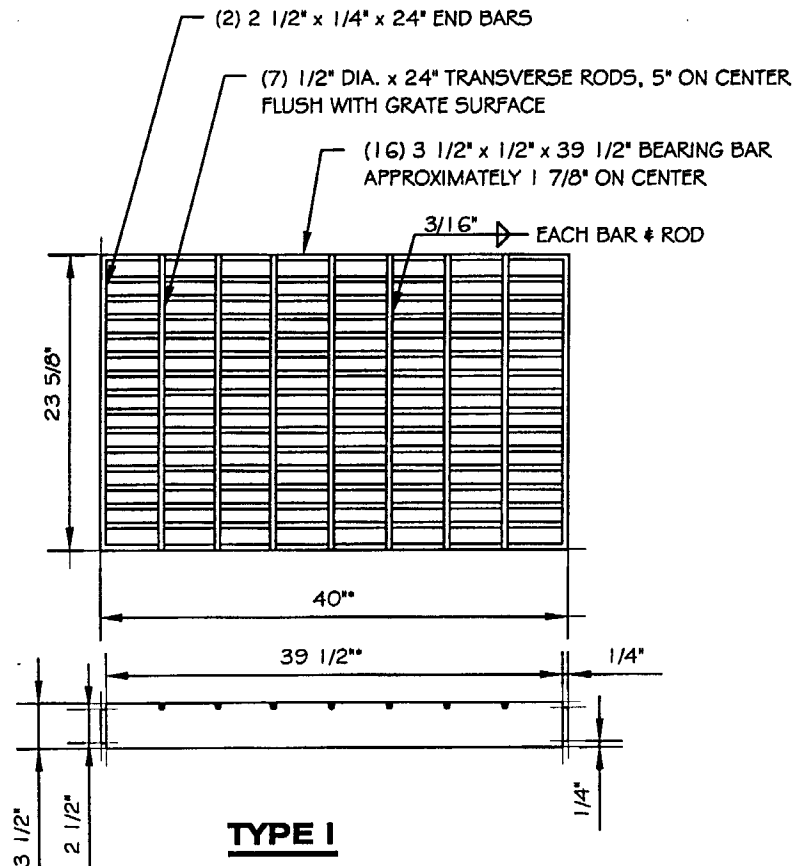


CITY OF
CHANDLER
STANDARD
DETAIL

RETENTION BASIN INLET

APPROVED: *Elizabeth M. [Signature]*
CITY ENGINEER
DATE: *January 11, 2002*

DETAIL NO.
C-504
NTS



* DIMENSION WILL VARY DEPENDING UPON
CATCH BASIN PIPE SIZE.

NOTES:

1. ALL STEEL SHALL BE IN ACCORDANCE WITH ASTM A-36.
2. WELDING SHALL BE IN ACCORDANCE WITH AWS SPECIFICATIONS.
3. FRAME AND GRATE SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS BEFORE DELIVERY.
4. THE COMPLETED ASSEMBLY SHALL BE GIVEN ONE SHOP COAT OF NO. 1 PAINT AND TWO FIELD COATS OF NO. 10 PAINT AS PER MAG SECTION 790.
5. THE GRATE SHALL BE FABRICATED TO WITHIN 1/8" OF SPECIFIED DIMENSIONS.

DETAIL NO.
C-506
NTS

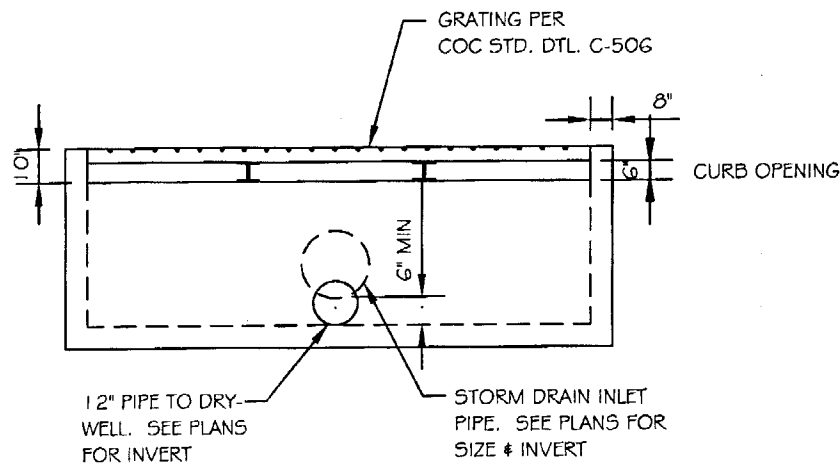


CITY OF
CHANDLER
STANDARD
DETAIL

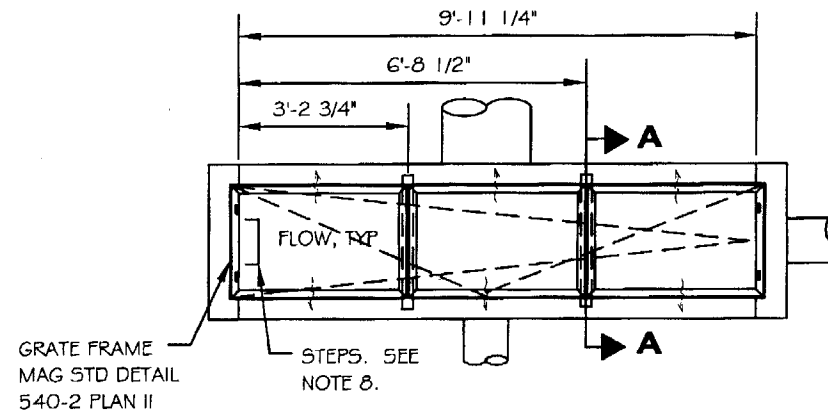
CATCH BASIN GRATES

APPROVED: *Dwight D. Patterson*
CITY ENGINEER
DATE: 11-19-99

DETAIL NO.
C-506
NTS



FRONT ELEVATION



TRIPLE CATCH BASIN

NOTES:

1. ALL CONCRETE SHALL BE M.A.G. CLASS 'A'.
2. CONNECTOR PIPES MAY BE PLACED IN ANY WALL AS PER PLAN.
3. FLOOR BASIN SHALL BE TROWELLED TO A HARD, SMOOTH SURFACE AND SHALL SLOPE FROM ALL DIRECTIONS TO OUTLET.
4. CONNECTOR PIPE SHALL BE TRIMMED TO THE FINAL SHAPE AND LENGTH BEFORE CONCRETE IS POURED.
5. PLANS SHOULD SPECIFY GRATE ELEVATION AND INVERT ELEVATION.
6. RETENTION BASIN INLET MAY BE PREFABRICATED PROVIDING A SHOP DRAWING IS APPROVED BY THE ENGINEER PRIOR TO FABRICATION.
7. THE FRAME SHALL BE MAG STD DETAIL 540-2, PLAN II, GRATE PER CHANDLER DET. #C-506.

DETAIL NO.
C-507
NTS



CITY OF
CHANDLER
STANDARD
DETAIL

**BELOW GRADE RETENTION BASIN
INLET (BUBBLER BOX)**

APPROVED: _____

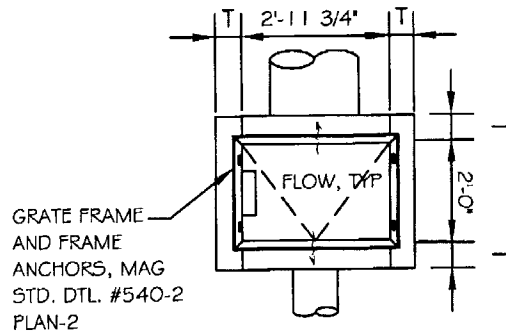
DATE: 01/08/09

Jim Hill
CITY ENGINEER

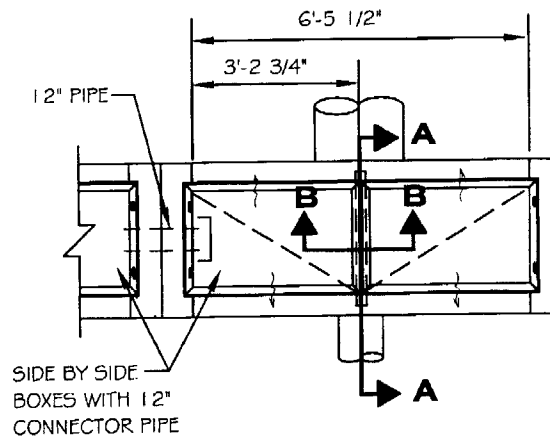
DETAIL NO.

C-507

PAGE 1 OF 3




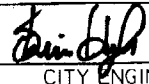
SINGLE CATCH BASIN

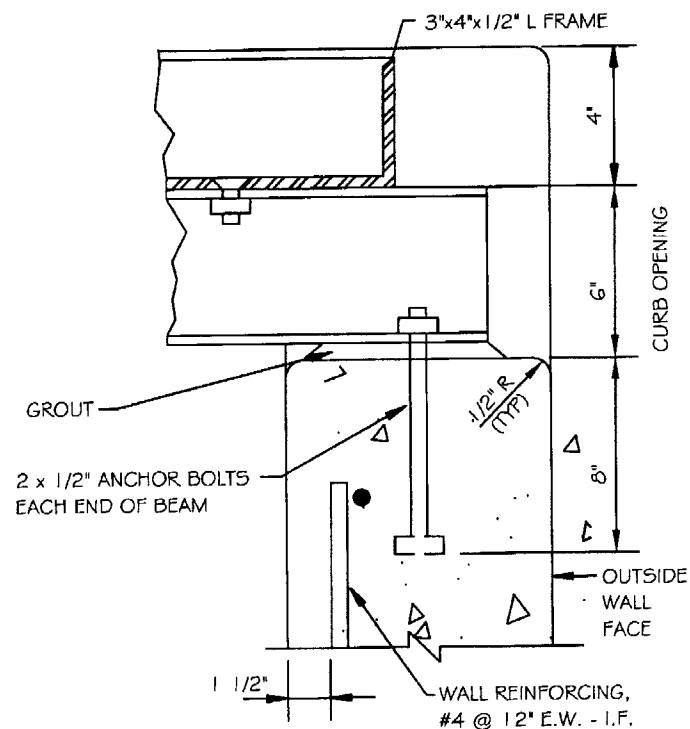
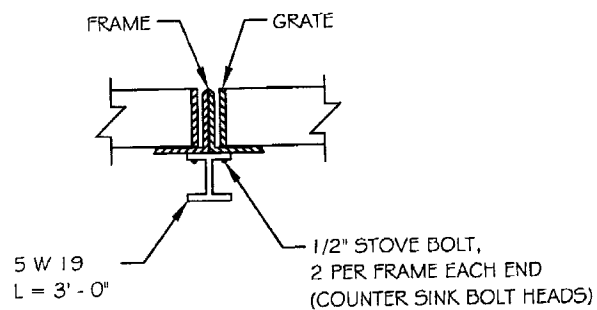


DOUBLE CATCH BASIN

NOTES: (CONT)

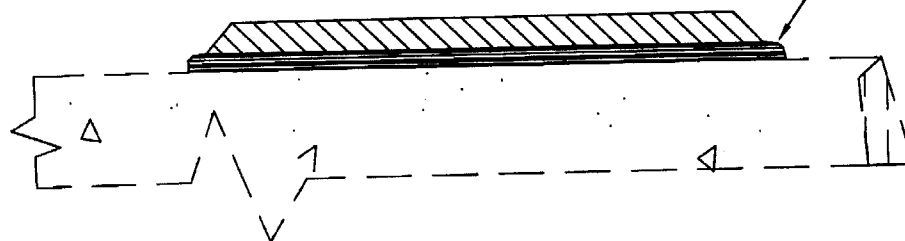
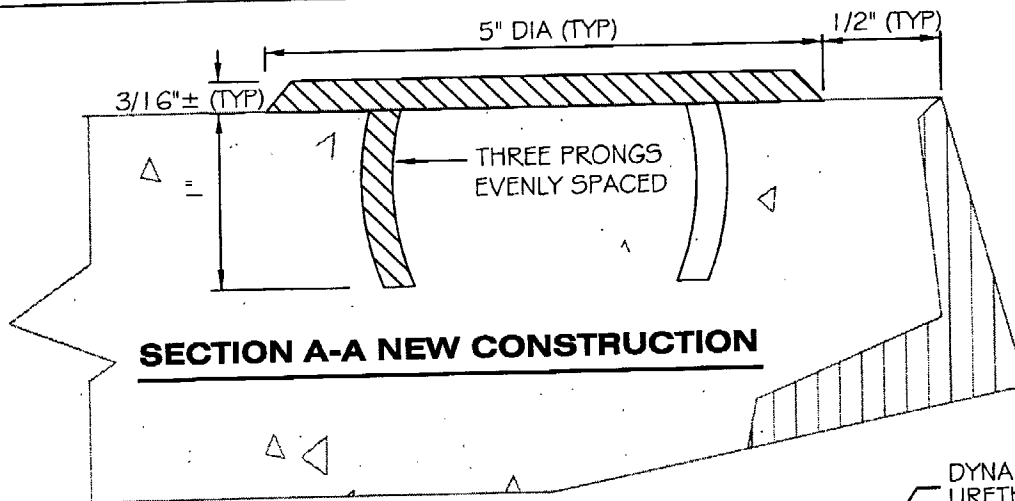
8. STEPS (MAG DET. 428 POLYPROPYLENE)
V = 3' (INCL) PLACE ONE STEP 12\" ABOVE
THE FLOOR OF THE BASIN. V OVER 3',
PLACE STEPS AT 12\" INTERVALS FROM
THE FLOOR OF THE BASIN WITH THE TOP
STEP AT 12\" (MIN) BELOW THE TOP OF GRATE.
9. ALL EXPOSED METAL HARDWARE SHALL BE
GIVEN ONE SHOP COAT OF NO. 1 PAINT AND
2 FIELD COATS OF NO. 10 PAINT AS PER
M.A.G. SECTION 790.
10. ALL METAL UNITS SHALL BE FABRICATED
FROM STRUCTURAL STEEL EXCEPT AS NOTED.
STRUCTURAL STEEL SHALL BE IN ACCORDANCE
WITH ASTM A-36.
11. WELDING SHALL BE IN ACCORDANCE WITH
MAG WELDING SPECIFICATIONS.

DETAIL NO. C-507 NTS	 CITY OF CHANDLER STANDARD DETAIL	BELOW GRADE RETENTION BASIN INLET (BUBBLER BOX)	APPROVED:  CITY ENGINEER DATE: 01/08/09	DETAIL NO. C-507 PAGE 2 OF 3
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T = 8" IF V IS UP TO 8'
(IF V EXCEEDS 8', SPECIAL DESIGN IS REQUIRED)
V = 3'-0" UNLESS OTHERWISE NOTED

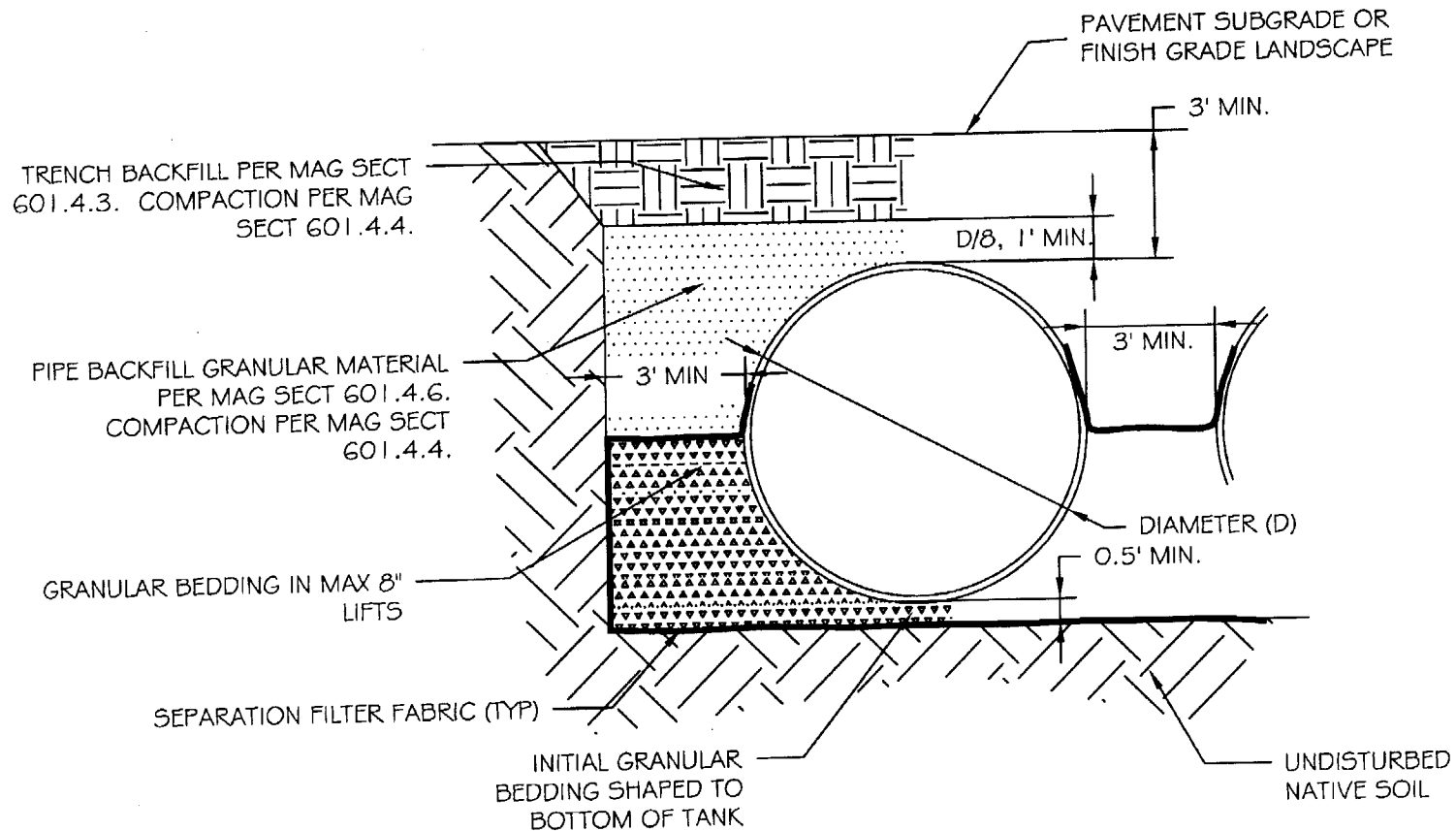
PAGE 3 OF 3



NOTES



1. MATERIAL: CAST ALUMINUM
2. THE WIDTH OF INDIVIDUAL LETTERS SHALL BE SELECTED SO THAT LETTERS AND WORDS ARE EQUALLY SPACED AND BALANCED.
3. LETTERS SHALL BE 1/2" IN HEIGHT. MARKER LAYOUT SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.
4. MARKERS SHALL BE ALIGNED WITH THE CENTER OF DRAINAGE INLETS AT THE TOP OF CURB.

DETAIL NO. C-508 NTS	 CITY OF CHANDLER STANDARD DETAIL	STORM DRAIN INLET MARKER	APPROVED:  CITY ENGINEER DATE: 01/08/07	DETAIL NO. C-508 NTS
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NOTES:

1. GRANULAR BEDDING SHALL BE $\frac{3}{8}$ " MINUS OPEN-GRADED CRUSHED ROCK COMPACTED IN 8" LIFTS USING VIBRATING COMPACTOR.
2. PLACEMENT AND COMPACTION OF THE GRANULAR BEDDING SHALL BE MONITORED AND CERTIFIED BY A GEOTECHNICAL ENGINEERING FIRM RETAINED BY THE OWNER OR CONTRACTOR.
3. ABC CONFORMING TO MAG SECT 702 MAY BE SUBSTITUTED FOR THE $\frac{3}{8}$ " CRUSHED ROCK. IN THAT CASE, COMPACTION SHALL BE AT LEAST 90% OF AASHTO T99 STANDARD PROCTOR DENSITY, AND THE SEPARATION FABRIC MAY BE OMITTED.
4. SEPARATION FILTER FABRIC SHALL BE NON-WOVEN, MODERATE SURVIVABILITY SUCH AS MIRAFI 160N, US FABRICS US 160NW, CARTHAGE MILLS FX-60HS, OR APPROVED EQUAL..

DETAIL NO. C-509 NTS	 CITY OF CHANDLER STANDARD DETAIL	BACKFILL DETAIL CMP UNDERGROUND RETENTION STORAGE TANK	APPROVED:  CITY ENGINEER DATE: 01/08/09	DETAIL NO. C-509 NTS
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